

TRB TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Water Quality

TRB's involvement in research on Air Quality & Climate Change from 2022-2025

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

All available Snap Searches can be accessed online here: <http://www.trb.org/InformationServices/Snap.aspx>

TRB Research

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view [search results](#) on TRB published research on Water Quality within the three past years.

Specialty Reports

- [Critical Issues in Transportation for 2024 and Beyond](#)
- [COVID-19 Addendum to Critical Issues in Transportation](#)
- [Racial Equity Addendum to Critical Issues in Transportation](#)

Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
 - [Report 262](#) - PFAS Management at Airports: A Guide
 - [Report 257](#) - Guide for Treatment of Airport Stormwater Containing Deicers: Update
 - [Report 220](#) - Guidebook for Developing a Zero- or Low-Emissions Roadmap at Airports
 - [Web-Only Document 64](#) - Assessing Climate Change Vulnerability at Airports: A Primer

[Consensus Study Reports](#)

- [Report 340](#) - Investing in Transportation Resilience: A Framework for Informed Choices
- [Report 336](#) - Options for Reducing Lead Emissions from Piston-Engine Aircraft

- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [Report 1117](#) - On-Bridge Stormwater Treatment Practices: A Guide
 - [Report 1040](#) - Achieving Highway Runoff Volume and Pollutant Reduction Using Vegetated Compost Blankets: A Guide
 - [Report 976](#) - Resilience Primer for Transportation Executives
 - [Synthesis 630](#) - Practices to Identify and Mitigate PFAS Impacts on Highway Construction Projects and Maintenance Operations
 - [Synthesis 614](#) - Outsourcing Post-Construction Stormwater Best Management Practice Inspection and Maintenance Activities
 - [Synthesis 617](#) - Prevention and Mitigation of Surficial Slope Failures on Fill Highway Embankment Slopes
 - [Synthesis 602](#) - Resilient Design with Distributed Rainfall-Runoff Modeling
 - [Synthesis 599](#) - Practices for Bioretention Stormwater Control Measures
 - [Web-Only Document 308](#) - Methods for State DOTs to Reduce Greenhouse Gas Emissions from the Transportation Sector

- [Web-Only Document 400](#) - Considering Greenhouse Gas Emissions and Climate Change in Environmental Reviews: Conduct of Research Report.
- [Web-Only Document 401](#) - Developing a Guide for On-Bridge Stormwater Treatment Practices
- [Web-Only Document 423](#) - Development of a New Highway Drainage Manual
- [WebResource 1](#) - Reducing Greenhouse Gas Emissions: A Guide for State DOTs

- [Transportation Research Circulars](#)

- [E-Circular 288](#) - Innovations in Freight Data: 2023 Workshop
- [E-Circular 279](#) - Advancing Low- and Zero-Emission Marine Vessel Technology Options Workshop
- [E-Circular 277](#) - 13th National Conference on Transportation Asset Management
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Current & Upcoming Projects

- [Current Projects](#)
 - [ACRP 02-90](#) - Development of Airport Construction Emission Inventory Tool (ACEIT) Version 2.0
 - [ACRP 02-94](#) - Update ACRP WebResource 4: Airport Air Quality Resource Library
 - [ACRP 02-95](#) - Understanding Airport Air Quality and Public Health Studies Related to Airports: An Update to ACRP Report 135
 - [ACRP 02-102](#) - A Balanced Look at Local Airport Activity and Climate Change
 - [ACRP 11-09/Topic 02](#) -ACRP First Look: Understanding Impacts of Tire Anti-degradants 6PPD and 6PPD-Quinone at Airports
 - [NCHRP 01-62](#) - Impact of Flooding on the Resiliency of Pavement Systems
 - [NCHRP 08-148](#) - A Guide for Management of Out-of-Service Facilities
 - [NCHRP 08-181](#) - Impacts of Climate Change and Extreme Weather on the Mobility of Socially Vulnerable Populations
 - [NCHRP 10-126](#) - Field-Cured Products and Water Quality: A Guide for Screening and Risk Mitigation
 - [NCHRP 15-80](#) - Design Guide and Standards for Infrastructure Resilience
 - [NCHRP Synthesis 20-05/Topic 56-13](#) - Budgetary Practices for State Stormwater Permit Compliance Programs
 - [NCHRP 20-44\(44\)](#) - Implementing the Design Practices Guide for Applying Climate Change Information to Hydrologic and Coastal Design of Transportation Infrastructure
 - [NCHRP 23-26](#) -Measuring Impacts and Performance of State DOT Resilience Efforts
 - [NCHRP 23-33](#) - Managed Retreat to Address Extreme Weather, Natural Hazards, and Climate Impacts
 - [TCRP H-61](#) - A Guide for Resilient Zero-Emission Transit Bus Fleets

- [Upcoming Projects](#)
 - [ACRP 02-106](#) - Update ACRP Report 84: Guidebook for Preparing Airport Emissions Inventories for State Implementation Plans
 - [ACRP 03-77](#) - Incorporating Climate Change into Aviation Forecasts
 - [NCHRP 08-181](#) - Impacts of Climate Change and Extreme Weather on the Mobility of Socially Vulnerable Populations
 - [ACRP 11-09/Topic 02](#) - ACRP First Look: Understanding Impacts of Tire Anti-degradants 6PPD and 6PPD-Quinone at Airports
 - [NCHRP 15-61A](#) - Hydrologic and Hydraulic Design Guide to Incorporate Climate Science in Transportation Infrastructure
 - [NCHRP 20-06/Topic 27-03](#) - Environmental and Planning Law and Transportation
 - [NCHRP 23-38](#) - Incorporating Risk Management into Roadway Infrastructure Maintenance Practices
 - [NCHRP 25-72](#)- Field Methods and Interlaboratory Tests to Establish the Accuracy and Precision of Measured Concentrations of Emerging Contaminants in Stormwater Runoff and Stormwater-Treatment System Effluent

Reports from the [National Academies Press](#) on Water Quality

- [Learning Resilience: Lessons for Managing Global Transboundary Water Vulnerabilities: Proceedings of a Workshop—in Brief](#)
- [Climate Security in Central America: Proceedings of a Workshop](#)
- [Thriving on Our Changing Planet: A Midterm Assessment of Progress Toward Implementation of the Decadal Survey](#)
- [Integrating the Human Sciences to Scale Societal Responses to Environmental Change: Proceedings of a Workshop](#)

- [Review of the Draft Fifth National Climate Assessment](#)
- [Transforming EPA Science to Meet Today's and Tomorrow's Challenges](#)
- [Equitable and Resilient Infrastructure Investments](#)
- [Communities, Climate Change, and Health Equity](#)
- [Engineering Responses to Climate Change](#)
- [Global Change Research Needs and Opportunities for 2022-2031](#)

Committees & Panels

[Sign-up to be a committee "Friend"](#)

[TRB Standing Committees](#) – Search by transportation mode and committee topic

- [ABC99I](#) - 12th National Conference on Transportation Asset Management
- [ACP20](#) - Freeway Operations
- [AKD50](#) - Standing Committee on Hydrology, Hydraulics, and Stormwater
- [AEP70](#) - Standing Committee on Environmental Analysis and Ecology
- [AJL50](#) - Standing Committee on Environmental Issues in Transportation Law
- [AMR50](#) - Extreme Weather and Climate Change Adaptation
- [AV030](#) - Standing Committee on Environmental Issues in Aviation
- [AW030](#) - Standing Committee on Marine Environment

[Project Panels](#) – Select *CRP Panel* and *Synthesis Panel* under Committee Type

- [B0186](#) - Review of Approaches for Managing Pollutant Loads in Highway Stormwater Runoff
- [D0154](#) - NCHRP Project Panel on Guidelines for Limiting Damage to Flexible and Composite Pavements Due to the Presence of Water
- [D08181](#) - Understand How Climate Change and Extreme Weather Impacts the Mobility of Socially Vulnerable Populations
- [D1561](#) - Applying Climate Change Information to Hydrologic and Hydraulic Design of Transportation Infrastructure
- [D2333](#) - Guidance in Planning for Managed Retreat as an Extreme Weather and Climate Adaptation Strategy
- [D2572](#) - NCHRP Project Panel on Field Methods and Interlaboratory Tests to Establish the Accuracy and Precision of Measured Concentrations of Emerging Contaminants in Stormwater Runoff and Stormwater-Treatment System Effluent
- [SN5511](#) - NCHRP Project Panel on Construction Stormwater Program Management, Tracking, Reporting, and Compliance
- [SN5614](#) - NCHRP Project Panel on State DOT Training Programs to Comply with NPDES Stormwater Permit Requirements

[Task Forces](#) - Search for *task force* under committee here

Councils

- [A001C](#) – Young Members Coordinating Council

Recent and Upcoming Events

[Upcoming Events/Conferences/Webinars](#) – Use left hand menu to filter events, search by topic

[TRB Annual Meeting](#)

[Past Events/Conferences/Webinars](#)

[TRB's Transportation Symposium on Environment, Energy, and Livable Economies](#)

August 25-28, 2024

Denver, CO

[Climate Resilient Design for Culverts and Pavements](#)

December 5, 2023

TRB's Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available free on TRB's website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

- **Transportation Research International Documentation (TRID)** – trid.trb.org - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – trt.trb.org – A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – rip.trb.org - Current or recently completed transportation research projects
- **Publications Index (PubsIndex) Database** – pubsindex.trb.org - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

Contact or Questions: TRBLibrary@nas.edu